N.Prakash

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2013-14

Date: 05.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of Toilet Block at High School in Manjunathanagara in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 03.04.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	

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ಸಾಗರಮಂಟಿ, ಬೆಂಗಳೂರು - 560 073

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2013-14 : 05.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of Toilet Block at High School in Manjunathanagara in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 03.04.2013

Date of Testing : 05.04.2013

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	224	11.20	16.10	83.9	75-100
1.18	518	25.90	42.00	58.0	55-90
600 Micron	423	21.15	63.15	36.9	35-59
300 Micron	487	24.35	87.50	12.5	8-30
150 Micron	203	10.15	97.65	2.3	0-10

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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 06.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Construction of Toilet Block at High School in Manjunathanagara in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 03.04.2013

Date of Testing : 06.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	986	3.94	3.94	96.06	95-100
20	15134	60.54	64.48	35.52	30-70
10	5970	23.88	88.36	11.64	10-35
4.75	2465	9.86	98.22	1.78	0-5

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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 06.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work . Construction of Toilet Block at High School in Manjunathanagara in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 03.04.2013

Date of Testing : 06.04.2013

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	190	3.8	3.8	96.2	95-100
10	3257	65.1	68.9	31.1	25 55
4.75	1396	27.9	96.9	3.1	0-10

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Job No : CTCE/BBMP/W.No.14/KRIDL/STEEL/2013-14 09.04.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Construction of Toilet Block at High School in Manjunathanagara in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 03.04.2013
Date of Test	:	09.04.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	546	12.80	O.K	O.K
2	10	0.59	513	550	13.35	O.K	O.K
3	12	0.89	515	554	13.70	O.K	O.K

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ಕ. ರಾಸಾಭಿವೃ ಇಲಾ ಮಂಡಲ
ಸೈಟ್ ಸೆಂಟರ್ಸ್ ಮಾರ್ಕೆಟಿಂಗ್ ಪ್ರಾಜೆಕ್ಟ್
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Job No.: CTCE/BBMP/W.No.14/KRIDL/BRICKS/2013-14

Date: 15.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of Toilet Block at High School in Manjunathanagara in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dared: 03.04.2013
SAMPLE ID	:	Brick Test
SAMPLES SUPPLIED BY	:	CLIENT

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Srrength Of Bricks	IS 3495-1992 (Part-1)	5.65 N/mm2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	9.70 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		4628 mm	(4600 ± 80 mm)
(b)	Measurement of Width in mm		2236 mm	(2200 ± 40 mm)
(c)	Measurement of Height in mm		1430 mm	(1400 ± 40 mm)

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